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Class 701 DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION

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1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION

- 2** . Remote control system
- 3** . Aeronautical vehicle
- 4** .. Altitude or attitude control or indication
- 5** ... Rate of change (e.g., ascent, decent)
- 6** Angle of attack
- 7** ... Air speed or velocity measurement
- 8** ... Threshold or reference value
- 9** Warning signal or alarm
- 10** ... Compensation for environmental conditions
- 11** ... Auto pilot
- 12** Inner/outer loop
- 13** ... Spacecraft or satellite
- 14** .. Flight condition indicating system
- 15** .. With indication or control of take-off
- 16** .. With indication or control of landing
- 17** ... I.L.S. or radar guidance
- 18** ... Profile of descent
- 19** . Railway vehicle
- 20** .. Railway vehicle speed control
- 21** . Marine vehicle
- 22** . Electric vehicle
- 23** . Automatic route guidance vehicle
- 24** .. On-board computer interact with a host computer
- 25** .. Storage or planning of route information
- 26** ... Modification or correction of route information
- 27** .. Artificial intelligence (e.g., fuzzy logic)
- 28** .. Having image processing
- 29** . Vehicle diagnosis or maintenance indication
- 30** .. Indication of maintenance interval
- 31** .. Self-test
- 32** .. Vehicle or device ID
- 33** .. Plural processors or external processor
- 34** .. Detection of faulty sensor
- 35** .. With data recording device
- 36** . Vehicle subsystem or accessory control
- 37** .. Suspension control
- 38**

- 39 ... Attitude change suppressive control (e.g., antiroll or antipitch)
- 40 ... Fail-safe system
- 41 ... Artificial intelligence (e.g., fuzzy logic)
- 42 .. Steering control
- 43 ... Feedback, transfer function or proportional and derivative (P& D) control
- 44 ... Fail-safe system
- 45 ... Artificial intelligence (e.g., fuzzy logic)
- 46 .. Control of vehicle safety devices (e.g., airbag, seat-belt, etc.)
- 47 ... By integrating the amplitude of the input signal
- 48 ... By frequency or waveform analysis
- 49 .. Cooperative or multiple control (e.g., suspension and braking)
- 50 .. Vehicle equipment position control (e.g., seat, mirror, door, window, headrest, or headlamp)
- 51 . Construction or agricultural-type vehicle (e.g., crane, forklift)
- 52 . Transmission control
- 53 .. Semiautomatic control (e.g., switchable between automatic and manual)
- 54 .. And other vehicle control
- 55 ... Engine output control
- 56 .. By changing shift map, schedule, or pattern
- 57 ... Having a plurality of preset maps, schedules, or patterns
- 58 .. Fuzzy logic
- 59 .. Adaptive control
- 60 ... Model or learning means (e.g., neural network)
- 61 ... Feedback control (e.g., closed loop)
- 62 Using a transmission ratio as feedback control
- 63 .. Fail-safe control (e.g., preventing a gear shift)
- 64 ... Responsive to faulty sensor
- 65 .. Indicating a completion of a shift or a shift to be completed
- 66 .. Responsive to road, external, or ambient condition
- 67 .. Time regulated operations
- 68 . Clutch control
- 69 .. Adaptive control
- 70 . Control of power distribution between vehicle axis or wheels (e.g., four wheel drive vehicle)
- 71 . Indication or control of braking, acceleration, or deceleration
- 72 .. Antiskid, antilock, or brake slip control
- 73 ... During cornering or turning of vehicle
- 74 ... On split coefficient surface (u)
- 75 ... Having particular means to determine a reference value for wheel slippage or pseudo-vehicle speed
- 76 Correction or modification
- 77 ... Fail-safe system
- 78 ... Artificial intelligence (e.g., fuzzy logic)
- 79 ... Control of brake pressure
- 80 Having speed variation responsive means (e.g., acceleration, deceleration)
- 81 Having coefficient of friction or road condition determining means
- 82 Four wheel drive, electric, or heavy vehicles

<u>82</u>	.. Antispin, traction control, or drive slip control
<u>83</u>	... Control of brake pressure
<u>84</u>	... Control of engine torque
<u>85</u>	.... Having throttle valve positioning
<u>86</u>	.... Having fuel cutting or ignition timing retarding
<u>87</u>	... Control of transmission torque
<u>88</u>	... Restricting differential operation
<u>89</u>	... Four wheel drive vehicle
<u>90</u>	... Having particular slip threshold, target slip ratio, or target engine torque determining means
<u>91</u>	... Integrated with antiskid or other vehicle control system (e.g., cruise control, suspension)
<u>92</u>	... Fail-safe system
<u>93</u>	.. Vehicle speed control (e.g., cruise control)
<u>94</u>	... Having gradient responsive control to suppress hunting, overshooting, or undershooting
<u>95</u>	.... By transmission shifting control
<u>96</u>	... Having inter-vehicle distance or speed control
<u>97</u>	... Fail-safe system
<u>98</u>	... Artificial intelligence (e.g., fuzzy logic)
<u>99</u>	. With indicator or control of power plant (e.g., performance)
<u>100</u>	.. Gas turbine, compressor
<u>101</u>	.. Internal-combustion engine
<u>102</u>	... Digital or programmed data processor
<u>103</u>	.... Control of air/fuel ratio or fuel injection
<u>104</u>	..... Controlling fuel quantity
<u>105</u>	..... Controlling timing
<u>106</u>	..... Artificial intelligence (e.g., fuzzy logic)
<u>107</u>	..... Fail-safe system
<u>108</u>	..... Exhaust gas circulation (EGC)
<u>109</u>	..... Detection of O ₂ concentration
<u>110</u>	.... Speed, acceleration, deceleration
<u>111</u>	.... Vibration, roughness, knock
<u>112</u>	.... Engine stop, fuel shutoff
<u>113</u>	.... Starting, warmup
<u>114</u>	.... Backup, interrupt, reset, or test
<u>115</u>	.... Specific memory or interfacing device
<u>116</u>	. With indication or control to maintain fixed position
<u>117</u>	. Traffic analysis or control of surface vehicle
<u>118</u>	.. With determination of traffic density
<u>119</u>	.. With determination of traffic speed
<u>120</u>	. Traffic analysis or control of aircraft
<u>121</u>	.. With speed control or order
<u>122</u>	.. With course diversion
<u>123</u>	. With indication of fuel consumption rate or economy of usage
<u>124</u>	. Determining balance or center of gravity (e.g., load distribution of vehicle)
<u>200</u>	NAVIGATION

- 201 . Determination of travel data based on the start point and destination point
- 202 .. Route pre-planning
- 203 .. Great circle route
- 204 . Determination of E.T.A.
- 205 . Determination of along-track or cross-track deviations
- 206 . Employing way point navigation
- 207 . Employing position determining equipment
- 208 .. For use in a map data base system
- 209 ... Including route searching or determining device
- 210 Route correction, modification, or verification
- 211 ... Having audio or visual route guidance
- 212 ... Having variable map scale
- 213 .. Using Global Positioning System (GPS)
- 214 ... Means to improve accuracy of position or location
- 215 Having multiple GPS antennas or receivers (e.g., differential GPS)
- 216 Having an self-contained position computing means (e.g., dead reckoning)
- 217 .. Using dead-reckoning apparatus
- 218 .. Using R-O (D.M.E. and path) or Tacan equipment
- 219 .. Using Loran or Shoran or Decca equipment
- 220 .. Using inertial sensor
- 221 ... With correction by noninertial sensor
- 222 .. Using star tracker
- 223 .. With radar or optical ground scanner
- 224 . With indicated course correction (compass deviation)
- 225 . Determining range without range measurement
- 226 . Space orbits or paths
- 300 **RELATIVE LOCATION**
- 301 . Collision avoidance
- 302 . Course to intercept

FOREIGN ART COLLECTIONS

FOR000 CLASS-RELATED FOREIGN DOCUMENTS

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